

**Original/Duplicate/Triplicate
CONTRACT CERTIFICATE**
(For Other Works)

AEY/YNK SUB-DIV
Date: 24/11/12
21/3/12

No. 1st of final

Division: BBMP / YNK

Sub-Division: Yelahanka Sub - Division.

Bill Received No. NRC-DBF No. 438
Date: 31.3.2012

Divisional

Cash Book Voucher No. Dated:

Sub Divisional

Work Code: 002-12-000011

Schedule Date: No. Head of Account:

Est. Cost: 25.00

Lshs

I.R. No. 2

Name of Work: Drilling of Borewells and providing pipe line in ward No-02 of Yelahanka Sub Division.

Name of Contractor and Full Address: Technical Manager (West) KRIDL, BBMP, Bangalore.

Reference to Agreement No. EE/YNK/D/Tend - / WAO/190 /2011-12.

Date: 18-08-2011

Certified that the measurements were taken by me on 31/03/12 and recorded of Page 24 of 25 measurement Book No. 139 and that the work is satisfactorily executed.

Contractor: Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP Bangalore

Officer-in-charge of work

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the Contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

II Memorandum of Payment

- 1) Total value of work done or supplies made as per account within
- 2) Deduct amount to be held in reserve being percent Rs.
- 3) Balance
- 4) Deduct Payment:

- a) Amount of previous payment as in the Office Cash Book Voucher

No. Dated: S.D. No:

adjusted towards cash advance recovery of

- b) Payments: } cash store or other material supplied.
- Now made } recovery of amount creditable to this/other work
- Amount paid on this bill Cheque / Cash.

- 5) Balance being unpaid value of work done held in reserve.
- 6) Deduct cash advance made on the Office cash Book Voucher No. dated: less adjustments.
- 7) Net amount due to or from Contractor unadjustments items. 137 days EOT
- 8) Advance to Contractor for materials brought to site (as detailed) within.
- 9) Value of Government materials supplied.

Total amount adjusted

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Amount	2589068
500	134750
27	53785
1051	107585
201	26875
001	2690
Rec	10093
TD	375818
ch	2313250
BBM	2589068

Received Rs. (in words)

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

Witness

1.

2.

Dated: Assistant Executive Engineer
Byatarayanapura Sub-division
Cash Rs. KRIDL BBMP, Bangalore

Dated:

Initials of Officer making payment

Contractor's Signature
Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore
(For use in the Office)

Amount & Date: 2589068
Signature: [Signature]
Amount: 2313250
Amount: 375818
Executive Engineer

Sl no	Description of work	Unit
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, LWS or PWS by vertical electrical sounding by adopting Verner or Schlumberger's method including reconnaissance survey of geological formation. Geophysical investigation of existing Ground Water in the vicinity, its quality 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc., as per Specification and direction	Each 13/W
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSi & above CFM & above in all strata including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, hoisting and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.)	Rmt
	0 to 50 m	
	50 to 100 m	
	100 to 150 m	
	150 to 200 m	
	200 to 250 m	
	250 to 300 m	
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material conforming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded conforming to IS 554 / 1985, one end fixed with a socket and the other end with a plastic protection end (including of all taxes)	Rmt
4	Providing 250mm dia PVC Pipe 5kg/cm	Rmt
5	Providing 175mm dia M.S Collar S	Each
6	Providing and fixing 175mm Borewell Cap	Each
7	Supply and delivery at site brand New texnig/ innovat/ Lubri/ Sabar / Atalanta/ Calamell/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wol type) squirrel cage submersible induction motor suitable for operation of 3111, 50 Hz, 380/440 volts AC supply fitted with required accessories such as suction, casing suction strainers sand guard Non return valve etc. complete. The pump and motor shall form an integral unit with all the required fittings 12.50 HP 20 stage	No
8	Supplying of ISI marked galvanized mild steel tube (continuously welded electric resistance welded (ERW) high frequency induction welded (HFW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1985 with latest amendments, pipes threaded at one end and the other end protected as per specification in random lengths of 4 to 7 mts Confirming to IS 1209 part 1/1990 with amendment 1-5 and with all its latest amendments if any. The pipes supplied should be with BIS mark No 3/08-00 2-CC/15, 10 2008, 50 mm dia including Collar Heavy Class	Rmt
9	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor conforming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) 2.5 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2010-11.	Mtr
10	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pan supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves gauges etc., involved in the job (Necessary GI pipe and specials will be supplied by the board at the site free of cost)	No
11	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,	Each
12	Supplying of LT/UG cable having aluminum conductor PVC insulated sheathed, galvanised steel wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.	Mtr
13	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR:1999-2000)	Mtr
14	Digging or trenching of 0.6m deep x 0.6 mtr wide refilling the trench to the required ground level and consolidating etc. complete for Cutting Road Surface	Mtr
15	Supplying and fixing of Class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm dia GI pipe	Mtr
16	Supplying and fixing L.T. cast iron pot head suitable for 1.1 KV class UG cable filled with necessary bitumening/gelting and complete with terminals, clamps, bolts, nuts and washers etc., 16Sqmm	No

Sl no	Description of work	
1.	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS or PWS by vertical electrical sounding by adopting Verner or Schnurberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Water in the vicinity its quality 1.0 meter in consolidated formation for proper sealing of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc, as per Specification and direction	
2.	Sinking borewell of 100 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strata including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc, complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.)	Rate
	0 to 50 m	
	50 to 100 m	
	100 to 150 m	
	150 to 200 m	
	200 to 250 m	
	250 to 300 m	
3.	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material conforming to IS 1357 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded conforming to IS 554 / 1985, one end fixed with a socket and the other end with a plastic protection end (including of all taxes)	Rate
4.	Providing 250mm dia PVC Pipe 8kg/cm	Rate
5.	Providing 175mm dia L.I.S Collar S	Each
6.	Providing and fixing 175mm Borewell Cap	Each
7.	Supply and delivery at site brand New lexmo/ innovat/ Lubi/ Sabar / Alalania/ Calent/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (wet type) squirrel cage submersible induction motor suitable for operation of 3PH, 50 Hz, 380/440 volts AC supply fitted with necessary accessories such as suction, casing suction strainers sand guard Non return valve etc complete. The pump and motor shall form an integral unit with all the required fittings 12.50 HP 20 stage	No
8.	Supplying of ISI marked galvanized mild steel tube (continuously welded electric resistance welded (ERW) high frequency, induction welded (HFWR) Hot finished welded type of nominal bore given below screwed at both ends as per IS 3347/1983 with latest amendments, pipes thready at one end and the other end protected as per specification in random lengths of 4 to 7 mts conforming to IS 1239 part I/1990 with amendment 1-5 and with all its latest amendments if any. The pipes supplied should be with ISI mark No 308-CO 2400/IS 10 2006 50 mm dia including Collar Heavy Class	Rate
9.	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor conforming to table 3 class 5 of IS 8135-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts IP No. 49/ I No. 29-b(1) 2.5 Sqmm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2010-11	Rate
10.	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap, Cable clips with bolts, nuts, valves gaskets etc, involved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost)	No
11.	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.	Each
12.	Supplying of LTUG cable having aluminium conductor PVC insulated sheathed, galvanized steel, wire / steel lap armoured cable with PVC outer sheathing 1.1 KV class	Rate
13.	Labour charges for laying of 1.1 KV class UC cable (P/W/D Electrical SR-1999-2003)	Rate
14.	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc complete for Cutting Road Surface	Rate
15.	Supplying and fixing of Class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm dia GI pipe	Rate
16.	Supplying and fixing L.T. cast iron pot head suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., 165sqmm	No

Previous Measurement		Present Measurement			Total up-to-date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
		5.00	1600.00	8000.00	5.00	8000.00	
		250.00	265.00	66250.00	250.00	66250.00	
		250.00	345.00	86250.00	250.00	86250.00	
		250.00	380.00	95000.00	250.00	95000.00	
		250.00	440.00	110000.00	250.00	110000.00	
		250.00	480.00	120000.00	250.00	120000.00	
		250.00	520.00	130000.00	250.00	130000.00	
		150.00	1305.00	195750.00	150.00	195750.00	
		30.00	754.47	22634.10	30.00	22634.10	
		30.00	150.00	4500.00	30.00	4500.00	
		5.00	100.00	500.00	5.00	500.00	
		5.00	43000.00	215000.00	5.00	215000.00	
		1000.00	415.00	415000.00	1000.00	415000.00	
		2200.00	107.00	235400.00	2200.00	235400.00	
		5.00	3000.00	15000.00	5.00	15000.00	
		5.00	285.00	1425.00	5.00	1425.00	
		125.00	150.00	18750.00	125.00	18750.00	
		125.00	8.00	1000.00	125.00	1000.00	
		75.00	60.00	4500.00	75.00	4500.00	
		20.00	240.00	4800.00	20.00	4800.00	
		5.00	260.00	1300.00	5.00	1300.00	

Sl no	Description of work	Unit
17	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.50 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal proportion of soil and charcoal 150 mm around the pipe to complete depth. The connection from the pipe to the conduit etc. is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc. the pipe shall have 16 through holes of 122 mm dia. (PWD Electrical SR-1999-2000)	No
18	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete 32 Amps	No
19	KSRB 13.7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and H.O.M of equipments with all leads complete as per specifications No. with all lead and lift etc complete as per specification and direction of engineer incharge of the work.	Nos
20	Providing N.P.C.P waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete 50mm dia with all lead and lift etc complete as per specification and direction of engineer incharge of the work.	No
21	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete with all lead and lift etc complete as per specification and direction of engineer incharge of the work.	No
22	Supplying shunt capacitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery. Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications.	No
23	Supplying and fixing miniature circuit breakers/splitters on existing MCB distribution boards using necessary wiring materials wiring complete as required 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications.	No
24	Fabrication supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation provided with hinged front cover, equipped with tamper proof locking arrangements with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc. complete box of 21600 sqcm @ Rs 2.25 /16SWG with all lead and lift etc complete as per specification and direction of engineer incharge of the work.	Sq Cm
25	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 550/440 volts A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy open and lowers ventilators shall be provided the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 15HP to 30 HP Star Delta Starter SERVED Ride with all lead and lift etc complete as per specification and direction of engineer incharge of the work.	No
26	KSRB 2-2-2: Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, specification, specification No. For Laying PVC Pipe Line with all lead and lift etc complete as per specification and direction of engineer incharge of the work.	Cum
27	Providing and installation at site of works P.V.C.Pipes including cost of pipes and specials and including lowering into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe around to a depth not less than 15cm with grave or selected earth available from the excavation Etc., with all lead and lift etc complete as per specification and direction of engineer incharge of the work.	Rmt
	75 mm dia 6 KSC PVC pipe	
	63mm dia 6KSC	
28	KSRB 2-4: Refilling available earth around pipe-lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50mm, and lift upto 1.5m, including cost of all labour complete as per specifications.	Cum
29	KSRB 13-6 3-6: Providing and fixing in position brass gate valve with C.I wheel of approved quality (scrapped and) 50mm nominal bore including cost of all materials, labour and H.O.M of equipments with all leads complete as per specifications. Specification No.	Each
		TOTAL

Certificates:

- 1 The above work is done satisfactorily and complete in all respect
- 2 There is no department Material issue for the above work.
- 3 This works comes under BUMP Limit;

Ramajeevan

+ Rs 3000

KR1DL-

-Total.

Previous Measurement		Present Measurement			Total up-to date		Remarks
Qty	cost	Qty	Rate	Cost	Qty	cost	
		5.00	1950.00	9750.00	5.00	9750.00	
		30.00	100.00	3000.00	30.00	3000.00	
		5.00	1114.06	5570.30	5.00	5570.30	
		5.00	201.40	1007.00	5.00	1007.00	
		20.00	80.00	1600.00	20.00	1600.00	
		5.00	350.00	1750.00	5.00	1750.00	
		5.00	1000.00	5000.00	5.00	5000.00	
		117000.00	0.33	38610.00	117000.00	38610.00	
		5.00	7000.00	35000.00	5.00	35000.00	
		928.13	179.00	166135.27	928.13	166135.27	
		916.65		161080.35	916.65	161080.35	
		1371		153552	1371	153552	
		1375.00	112.00	154000.00	1375.00	154000.00	
		1375.00	83.00	114125.00	1375.00	114125.00	
		928.13	51.41	47715.16	928.13	47715.16	
		916.65		117124.93	916.65	117124.93	
		35.00	1582.58	55390.30	35.00	55390.30	
		100	KRPP	2585712.13		2585712.13	

chargey 2690,000

26,90000

2383712 = 00

- 60896 = 00

2444608 = 00

+ 161 244460 = 00

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